<u>IN THE CLAIMS</u>

Please amend the claims as follows:

Claim 1. (Currently Amended) A cone crusher comprising:

a stationary concave liner;

a mounting base as a movable element which is capable of approaching <u>an</u> ~~the~~ inner periphery of said concave liner and separating therefrom <u>about a substantially vertical axis</u>; and

a mantle liner fixed to said mounting base <u>and positioned relative to said concave liner to form a crushing chamber therebetween</u>, wherein a crush material is <u>sequentially</u> crushed in [[a]] <u>first, second and third regions of the</u> crushing chamber ~~formed between said concave liner and said mantle liner~~,

wherein said concave liner comprises:

a first area surface <u>at said first region and</u> having a length of T to √2T <u>in the direction of movement of the crush material from an inlet of said crushing chamber to an outlet thereof</u>, said first area surface facing said crushing chamber<u>, wherein</u> ~~to form a first area and~~ T is a predetermined value;

a second area surface ~~extending inclining outward, said second area surface~~ facing said crushing chamber <u>at said second region</u> ~~to form a second area~~; and

a third area surface ~~extending inclining further outward, said third area surface~~ facing said crushing chamber <u>at said third region</u> ~~to form a third area,~~

whereby said first to third area surfaces are sequentially arranged <u>in the direction of movement of the crush material</u> from the inlet of said crushing chamber <u>to an outlet thereof,</u>

and wherein said mantle liner comprises:

a first tapered surface<u>, wherein</u> ~~having~~ a length of a perpendicular from said first area surface <u>to said first tapered surface</u> at ~~the end on~~ the inlet side <u>of said first region is</u> ~~thereto~~

being greater than T, a cross angle of said first tapered surface is less than 20° with respect to

said first area surface, and an inclination angle of said first tapered surface is greater than 60°

relative to the horizontal plane;

a second tapered surface, wherein having a length of a perpendicular from said

second area surface to said second tapered surface at the end on the inlet side of said second

region being is greater than 0.5T and a cross angle of said second tapered surface is 5° to 10°

with respect to said second area surface; and

a third tapered surface having an inclination angle of 45° to 50° relative to the

horizontal plane;

whereby said first to third tapered surfaces are sequentially arranged from the inlet

of said crushing chamber in the direction of movement.

Claim 2. (Original) The cone crusher according to Claim 1, wherein said third

tapered surface has a cross angle of 2° to 3° with respect to said third area surface.

Claim 3. (Currently Amended) The cone crusher according to Claim 1, wherein said

second area surface has a length in the direction of movement of T to $\sqrt{2}$T and said third area

surface has a length in the direction of movement of T/$\sqrt{2}$ to T.

Claim 4. (Currently Amended) The cone crusher according to Claim 1, wherein said

first tapered surface has a length in the direction of movement of T/$\sqrt{2}$ to T.

Claim 5. (Currently Amended) The cone crusher according to Claim 1, wherein said

second tapered surface has a length in the direction of movement of $\sqrt{2}$T to 2.4T.

Claim 6. (Currently Amended) The cone crusher according to Claim 1, wherein said third tapered surface has a length in the direction of movement of T to $\sqrt{2}$T.

Claim 7. (Original) The cone crusher according to Claim 1, wherein the curvature radius between said first area surface and said second area surface is 1.4T to 1.7T.

Claim 8. (Original) The cone crusher according to Claim 1, wherein the curvature radius between said second area surface and said third area surface is 6.4T to 9.7T.

Claim 9. (Original) The cone crusher according to Claim 1, wherein the curvature radius between said first tapered surface and said second tapered surface is 1.7T to 2.0T.

Claim 10. (Original) The cone crusher according to Claim 1, wherein the curvature radius between said second tapered surface and said third tapered surface is 13T to 16.3T.

Claim 11. (Currently Amended) A cone crusher comprising:

a stationary concave liner;

a mounting base as a movable element which is capable of approaching an ~~the~~ inner periphery of said concave liner and separating therefrom about a substantially vertical axis; and

a mantle liner fixed to said mounting base and positioned relative to said concave liner to form a crushing chamber therebetween,

wherein a crush material is crushed in [[a]] the crushing chamber ~~formed between said concave liner and said mantle liner~~,

wherein said crushing chamber comprises:

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a first ~~area~~ region defined by said concave liner and said mantle liner, wherein a ~~the~~ crushing surface of said mantle liner at an ~~the~~ inlet for the crush material is 70° to 75° to the horizontal plane and the angle between a ~~the~~ crushing surface of said concave liner and the crushing surface of said mantle liner at the inlet is 15° to 20°;

a second ~~area~~ region defined by said concave liner and said mantle liner, wherein the crushing surface of said mantle liner at a middle part between the inlet and an ~~the~~ outlet for the crush material is 52° to 57° to the horizontal plane and the angle between the crushing surface of said concave liner and the crushing surface of said mantle liner at the middle part is 5° to 10°; and

a third ~~area~~ region defined by said concave liner and said mantle liner, wherein the crushing surface of said mantle liner at the outlet for the crush material is 45° to 50° to the horizontal plane and the angle between the crushing surface of said concave liner and the crushing surface of said mantle liner at the outlet is 2° to 3°;

whereby said first to third regions ~~areas~~ are sequentially arranged in a direction of movement of the crush material from the inlet to the outlet.

Claim 12. (Original) The cone crusher according to Claim 11, wherein the crushing surface of said concave liner is approximately 90° in said first area, 57° to 62° in said second area, and 47° to 52° in said third area, to the horizontal plane.